

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

re Patent Application of:

RUDOLPH W. FREY ET AL.

Serial No. 09/745,192

Filing Date: December 21, 2000

For: **METHOD FOR DETERMINING AND
CORRECTING VISION**

Asst. Commissioner for Patents
Washington, D.C. 20231

Sir:

Art Unit: 2877

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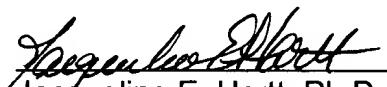
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**TRANSMITTAL OF SUPPLEMENTAL
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In compliance with 37 C.F.R. §1.97(b), it is respectfully requested that the Information Disclosure Statement (Form PTO/SB/08A) attached hereto be entered and the references listed thereon be considered by the Examiner and made of record. Copies of the listed references are enclosed.

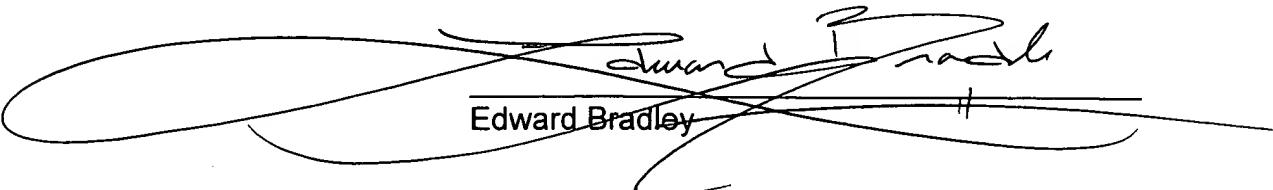
Respectfully submitted,


Jacqueline E. Hartt, Ph.D.

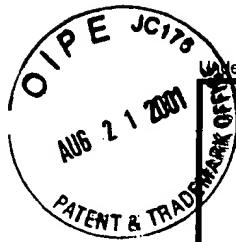
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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	1	of	9	Attorney Docket Number	24430.6
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Examiner Initials*	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
AA	3,880,501			Munnerlyn	Apr. 29, 1975	
AB	4,069,823			Isakov et al	Jan. 24, 1978	
AC	4,523,821			Lang et al.	June 18, 1985	
AD	4,579,430			Bille	Apr. 1, 1986	
AE	4,632,528			Yoshino et al.	Dec. 30, 1986	
AF	4,669,466			L'Esperance	June 2, 1987	
AG	4,688,941			Philbert	Aug. 25, 1987	
AH	4,702,245			Schröder et al	Oct. 27, 1987	
AI	4,718,418			L'Esperance, Jr.	Jan. 12, 1988	
AJ	4,721,379			L'Esperance	Jan. 26, 1988	
AK	4,729,372			L'Esperance, Jr.	Mar. 8, 1988	
AL	4,750,818			Cochran	Jun. 14, 1988	
AM	4,764,930			Bille et al	Aug. 16, 1988	
AN	4,838,679			Bille	June 13, 1989	
AO	4,848,340			Bille et al	Jul. 18, 1989	
AP	4,881,808			Bille et al	Nov. 21, 1989	
AQ	4,901,718			Bille et al	Feb. 20, 1990	
AR	4,907,586			Bille et al	Mar. 13, 1990	
AS	4,941,093			Marshall et al	Jul. 10, 1990	
AT	4,972,836			Schenck et al	Nov. 27, 1990	
AU	4,988,348			Bille	Jan. 29, 1991	
AV	4,991,953			Pflibsen et al.	Feb. 12, 1991	
AW	5,026,977			Hubbard, Jr.	Jun. 25, 1991	
AX	5,062,702			Bille	Nov. 5, 1991	
AY	5,106,183			Yoder, Jr.	Apr. 21, 1992	
AZ	5,114,628			Höfer et al.	May 19, 1992	

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Sheet

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Complete If Known

Application Number	09/745,192
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First Name of Inventor	Rudolph W. Frey
Group Art Unit	2877
Examiner Name	
Attorney Docket Number	24430.6

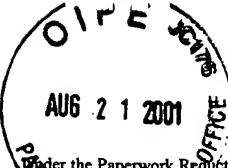
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		Number	Kind Code (if known)			
BA	5,139,022			Lempert	Aug. 18, 1992	
BB	5,147,352			Azema et al	Sep. 15, 1992	
BC	5,159,361			Cambier et al.	Oct. 27, 1992	
BD	5,177,511			Feuerstein et al.	Jan. 5, 1993	
BE	5,184,157			Ichihashi et al.	Feb. 2, 1993	
BF	5,196,006			Klopotek et al	Mar. 23, 1993	
BG	5,198,845			Triller	Mar. 30, 1993	
BH	5,202,709			Ischihashi et al.	Apr. 13, 1993	
BI	5,214,456			Gersten	May 25, 1993	
BJ	5,221,834			Lisson et al	Jun. 22, 1993	
BK	5,229,889			Kittell	July 20, 1993	
BL	5,233,174			Zmek	Aug. 3, 1993	
BM	5,243,367			Spellitz	Sept. 7, 1993	
BN	5,246,435			Bille et al	Sep. 21, 1993	
BO	5,258,791			Penney et al	Nov. 2, 1993	
BP	5,263,950			L'Esperance, Jr.	Nov. 23, 1993	
BQ	5,279,611			McDonnell et al	Jan. 18, 1994	
BR	5,293,871			Reinstein et al.	Mar. 15, 1994	
BS	5,298,971			Huang et al	Mar. 29, 1994	
BT	5,307,097			Baker	Apr. 26, 1994	
BU	5,324,281			Muller	Jun. 28, 1994	
BV	5,334,190			Seiler	Aug. 2, 1994	
BW	5,339,121			Shimmick et al	Aug. 16, 1994	
BX	5,360,424			Klopotek	Nov. 1, 1994	
BY	5,395,356			King et al	Mar. 7, 1995	
BZ	5,404,884			Lempert	Apr. 11, 1995	

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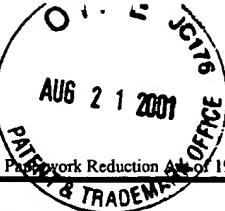
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		Number	Kind Code (if known)			
CA	5,410,376			Cornsweet et al	Apr. 25, 1995	
CB	5,411,501			Klopotek	May 2, 1995	
CC	5,423,801			Marshall et al	Jun. 13, 1995	
CD	5,437,658			Muller et al	Aug. 1, 1995	
CE	5,439,462			Bille et al	Aug. 8, 1995	
CF	5,442,412			Frey et al.	Aug. 15, 1995	
CG	5,452,031			Ducharme	Sept. 19, 1995	
CH	5,461,212			Seiler et al	Oct. 24, 1995	
CI	5,473,392			Klopotek	Dec. 5, 1995	
CJ	5,474,548			Knopp et al	Dec. 12, 1995	
CK	5,475,452			Kuhn et al.	Dec. 12, 1995	
CL	5,491,524			Hellmuth et al.	Feb. 13, 1996	
CM	5,493,391			Neal et al.	Feb. 20, 1996	
CN	5,502,518			Lieberman	Mar. 26, 1996	
CO	5,505,723			Muller	Apr. 9, 1996	
CP	5,507,741			L'Esperance, Jr.	Apr. 16, 1996	
CQ	5,512,965			Snook	Apr. 30, 1996	
CR	5,512,966			Snook	April 30, 1996	
CS	5,521,657			Klopotek	May 28, 1996	
CT	5,548,354			Kasahara et al.	Aug. 20, 1996	
CU	5,556,395			Shimmick et al	Sep. 17, 1996	
CV	5,563,709			Poultney	Oct. 8, 1996	
CW	5,570,142			Lieberman	Oct. 29, 1996	
CX	5,581,347			Le Saux et al.	Dec. 3, 1996	
CY	5,592,246			Kuhn et al.	Jan. 7, 1997	
CZ	5,629,765			Schmutz	May 13, 1997	

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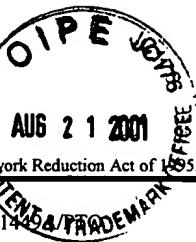
Examiner Initials*	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
DA	5,632,282			Hay et al	May 27, 1997	
DB	5,632,742			Frey et al.	May 27, 1997	
DC	5,673,096			Dorsel et al.	Sep. 30, 1997	
DD	5,684,545			Dou et al	Nov. 4, 1997	
DE	5,711,762			Trokel	Jan. 27, 1998	
DF	5,722,427			Wakil et al.	Mar. 3, 1998	
DG	5,735,283			Snook	Apr. 7, 1998	
DH	5,735,843			Trokel	Apr. 7, 1998	
DI	5,740,803			Gray et al.	Apr. 21, 1998	
DJ	5,757,463			Kohayakawa	May 26, 1998	
DK	5,777,719			Williams et al.	July 7, 1998	
DL	5,784,146			Nanjo et al.	July 21, 1998	
DM	5,785,704			Bille et al.	July 28, 1998	
DN	5,822,035			Bille	Oct. 13, 1998	
DO	5,825,476			Abitol et al.	Oct. 20, 1998	
DO	5,841,511			D'Souza et al.	Nov. 24, 1998	
DQ	5,847,804			Sarver et al.	Dec. 8, 1998	
DR	5,861,955			Gordon	Jan. 19, 1999	
DS	5,864,381			Neal et al.	Jan. 26, 1999	
DT	5,920,373			Bille	July 6, 1999	
DU	5,936,720			Neal et al.	Aug. 10, 1999	
DV	5,943,117			Van De Velde	12/99	
DW	5,949,521			Williams et al.	Sept. 7, 1999	
DX	5,963,300			Horwitz	Oct. 5, 1999	
DY	5,966,197			Yee	Oct. 12, 1999	
DZ	5,994,687			Chanteloup et al.	Nov. 30, 1999	

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Sheet	5	of	9	Attorney Docket Number	24430.6
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		Number	Kind Code (if known)			
EA	6,007,204			Fahrenkrug et al.	Dec. 28, 1999	
EB	6,043,885			Mazuet et al.	Mar. 28, 2000	
EC	6,050,687			Bille et al.	Apr. 18, 2000	
ED	6,057,913			Brown et al.	May 02, 2000	
EE	6,086,204			Magnante	Jul. 11, 2000	
EF	6,095,651			Williams et al.	Aug. 1, 2000	
EG	6,155,684			Bille et al.	Dec. 05, 2000	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				
EH	PCT	WO 87/05205			G. Rodenstock Instrumente GmbH	Sept. 11, 1987		
EI	PCT	WO 87/06478			Institut National De La Sante Et De La Recherche Medicale	Nov. 5, 1987		
EJ	PCT	WO 92/01417			Horwitz, Larry S.	Feb. 6, 1992		
EK	JP	5-146409			Topcon Corp.	June 15, 1993		T
EL	JP	6-327634			Topcon Corp.	Nov. 29, 1994		T
EM	WO	95/28989			Autonomous Technologies Corp.	Nov. 2, 1995		
EN	EP	0 697 611	A3		Carl Zeiss	Feb. 21, 1996		T
EO	EP	0 697 611	A2		Carl Zeiss	Feb. 21, 1996		T
EP	DE	42 22 395	A1		Meyer-Roedern	Jan. 13, 1994		
EQ	PCT	WO 98/27863			University of Rochester	July 2, 1998		T

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
ER	PULIANTO, et al., "High-Speed Photography of Excimer Laser Ablation of the Cornea," <i>Arch Ophthalmol</i> , Vol. 105, Sept. 1987, pages 1255-1259.		
ES	LIANG, et al., "Objective Measurement of Wave Aberrations of the Human Eye with the Use of a Hartmann-Shack Wave-front Sensor," <i>J. Opt. Soc. Am. A</i> , Vol. 11, No. 7, July 1994, pages 1949-1957.		
ET	WU, "Supernormal Vision, a Focus on Adaptive Optics Improves Images of the Eye and Boosts Vision," <i>Science News</i> , Vol. 152, November 15, 1997, pages 312-313.		
EU	DREHER, et al., "Active Optical Depth Resolution Improvement of the Laser Tomographic Scanner," <i>Applied Optics</i> , Vol. 28, No. 4, February 1989, pages 804-808.		
EV	GEARY, "Appendix 1.1 - Basic Geometrical Optics, Chapter 6 - Indirect Wavefront Measurement, Part II," and "Chapter 7 - Wavefront Sensor Characterization & Calibration," <i>Introduction to Wavefront Sensors</i> , May 1995, pages 10-11, 89-103, and 105-109.		
EW	"Scientists Snap Sharpest Pictures of Living Human Retina," http://www.rochester.edu/pr/releases/opt/will.htm , October 3, 1994.		
EX	THE APPLIED OPTICS GROUP, "Shack Hartmann Sensors," http://op.ph.ic.ac.uk/ao/sh_sense.html , June 4, 1996, pages 1-3.		
EY	THE APPLIED OPTICS GROUP, "Results from UKIRT," http://op.ph.ic.ac.uk/ao/ukirt_res.html , February 22, 1995, pages 1-2.		
EZ	THE APPLIED OPTICS GROUP, "Astronomical Imaging Through Turbulence: An Overview," http://op.ph.ic.ac.uk/ao/overview.html , June 4, 1996, pages 1-4.		
FA	.eESA, WFS, "Wave Front Sensor," http://esapub.esrin.esa.it/pointtotest/test251.html , May 23, 1997, pages 1-2.		
FB	WILLIAMS, "Limits of Human Vision," http://www.cvs.rochester.edu/people/d_williams/d_williams.html , December 30, 1998, pages 1-4.		
FC	"Extensions of Low-Cost Adaptive Optics: Imaging of Space-Objects, the Retina, and Power Projection," Industrial Sensors and Actuators, dated Dec. 1993 (actual publication date, if any, unknown), pp. 1, 10, and 15.		

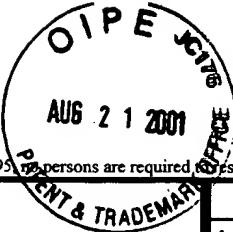
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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FD	LABJUHN, et al., "Astigmatismuskorrektur durch Laserthermokeratoplastik (LTK) - Ein Ansatz für die Korrektur des hohen Astigmatismus nach Perforierender Keratoplastik, <i>Contactologia 18D</i> (1996), pp. 175-183.		
FE	COHEN, et al., "Assessment of the Power and Height of Radial Aspheres Reported by a Computer-assisted Keratoscope," <i>American Journal of Ophthalmology</i> , Vol. 119, Vol. No. 6, Nov. 30, 1994, pp. 723-732.		
FF	CORBETT, et al., "The Topography of the Normal Cornea," <i>Eur J Implant Ref Surg.</i> , Vol. 6, Oct., 1994, pp. 286-297.		
FG	MAEDER, et al., "Accurate 3D Corneal Surface Measurement Using an Automated Mapping Approach," <i>SPIE</i> , Vol. 2434, 1995, pp. 328-334.		
FH	SALMON, et al., "Comparison of Elevation, Curvature, and Power Descriptors for Corneal Topographic Mapping," <i>Optometry & Vision Science</i> , Vol. 72, No. 11, 1995, pp. 800-808.		
FI	PAVLOPOULOS, et al., "The Effect of Artificial Tears on Computer-assisted Corneal Topography in Normal Eyes and After Penetrating Keratoplasty," <i>American Journal of Ophthalmology</i> , Vol. 119, June 1995, pp. 712-722.		
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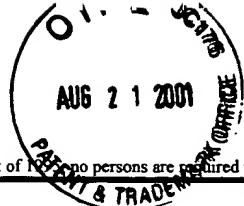
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Application Number	09/745,192
Filing Date	12/21/2000
First Named Inventor	Rudolph W. Frey
Group Art Unit	2877
Examiner Name	

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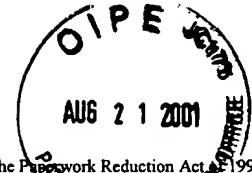
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FP	REIDY, et al., "The Corneal Topography of Epikeratophakia," <i>Refractive & Corneal Surgery</i> , Vol. 6, Jan./Feb. 1990, pp. 26-31.		
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GA	CHARMAN, "Wavefront Aberration of the Eye: A Review," <i>Optometry and Vision Science</i> , Vol. 68, No. 8, pp. 574-583.		
GB	BARTSCH, et al., "Resolution Improvement in Confocal Scanning Laser Tomography of the Human Fundus," <i>1994 Technical Digest Series</i> , Vol. 2 (Optical Society of America, Washington D. C.), 1994, pp. 134-137.		
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GI	FREISCHLAD, et al., "Modal Estimation of a Wave Front from Difference Measurements Using the Discrete Fourier Transform," <i>J. Opt. Soc. Am.</i> , Vol. 3, No. 11, November 1986, pages 1852-1861.		
GJ	KLYCE, et al., "Imaging, Reconstruction, and Display of Corneal Topography," <i>New Methods in Microscopy and Low Light Imaging</i> , Vol. 1161, 1989, pages 409-416.		
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